## We Claim:

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1. A graphics system, including:

an embedded frame buffer; and

- a copy pipeline which transfers data from the embedded frame buffer to an external image storage location;
- wherein the copy pipeline converts the data from one format to another format prior to writing the data to the external image storage location.
  - 2. The graphics system of claim 1, wherein the external location is a main memory of the graphics system.
  - 3. The graphics system of claim 1, wherein the copy pipeline is operable to selectively transfer the data to either a display buffer or a texture buffer.
  - 4. The graphics system of claim 3, wherein the copy pipeline converts the data to a display format if the data is transferred to the display buffer and a texture format if the data is transferred to the texture buffer.
- 5. The graphics system of claim 3, wherein the graphics system further includes a graphics pipeline, wherein the graphics pipeline is operable to use the data in the texture buffer during a rendering process.

- 6. The graphics system of claim 1, wherein the copy pipeline selectively reads data from the embedded frame buffer in RGB color format or YUV color format.
  - 7. The graphics system of claim 6, wherein the copy pipeline converts the data from the embedded frame buffer to either a display format or a texture format.
  - 8. The graphics system of claim 7, wherein, when the data is converted to a display format, the copy pipeline writes the data to a display buffer, and when the data is converted to texture format, the copy pipeline writes the data to a texture buffer.
    - 9. The graphics system of claim 8, wherein the display buffer and the texture buffer are located in a main memory of the graphics system.
  - 10. The graphics system of claim 6, wherein the graphics pipeline selectively converts the data read from the embedded frame buffer to a YUV color format or an RGB color format.
- 1 11. The graphic system of claim 10, wherein the graphics pipeline converts
  2 the data to a YUV format if the data is intended for display.
- 1 12. A method of transferring data from a graphics chip to an external image 2 storage destination, including:
  - storing image data in an embedded frame buffer of the graphics chip;

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- initiating a copy out operation for transferring data from the embedded frame buffer to the external image storage destination;
- converting the data from one format to another format during the copy out operation; and
- writing the converted data to the external image storage destination.
- 1 13. The method of claim 12, wherein the converting step converts the data from RGB color format to YUV color format.
- 14. The method of claim 12, wherein the converting step includes 2 converting the data from YUV color format to RGB color format.
  - 15. The method of claim 12, wherein the converting step includes converting the data to a texture format, and the writing step includes writing the texture format data to a texture buffer.
- 1 16. The method of claim 12 wherein the converting step includes
  2 converting the data to a display format, and the writing step includes writing the
  3 display format data to a display buffer.
- 17. The method of claim 16 wherein the display format is a YUV 4:2:2 format.
- 1 18. The method of claim 12 wherein the writing step includes selectively
  2 writing the data to either a display buffer or a texture buffer in a main memory of
  3 the graphics system.

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- 1 19. The method of claim 12, further including performing a scaling operation on the data prior to writing the data to the external image storage destination.
- 20. The method of claim 12, further including performing a gamma correction operation on the data prior to writing the data to the external image storage destination.
- 21. The method of claim 12, further including performing an anti-aliasing operation on the data prior to writing the data to the external image storage destination.
  - 22. The method of claim 12 further including performing a de-flickering operation on the data prior to writing the data to the external image storage location.
  - 23. The method of claim 12, wherein the converting step includes performing at least one of the following conversions:
- RGB color format to another RGB color format;
  - YUV color format to another YUV color format;
  - RGB color format to YUV color format; and
- YUV color format to RGB color format.